

AMENDMENTS TO THE CLAIMS

The listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1-6 **(Canceled)**

7. **(Currently Amended)** A method of aligning a cap having a lens to a header holding a photonic device, the method comprising:

 a step for viewing ~~said photonic device~~, through said lens, a displacement of a first optical axis of said lens relative to a second optical axis of said photonic device;

 a step for moving said cap relative to said header to position said ~~[[a]]~~first optical axis of said lens proximate said ~~[[a]]~~second optical axis of said photonic device; and

 a step for mounting said cap to said header to hold said cap in alignment with said photonic device.

8. **(Original)** The method of claim 7, further comprising a step for hermetically sealing said cap to said header.

9. **(Original)** The method of claim 8, wherein said step for viewing comprises a step for viewing said photonic device by a video display system.

10. **(Original)** The method of claim 9, further comprising a step for overlaying a calibration pattern on said video display.

11. **(Original)** The method of claim 10, further comprising a step for moving said cap relative to said header until a center of said lens is within a preselected calibration distance of said photonic device.

12. **(Original)** The method of claim 7, wherein said step for moving said cap relative to said header comprises:

a step for positioning said header for movement in at least two of an x-direction, a y-direction, and a z-direction;

a step for positioning said cap for movement in at least two of an x-direction, a y-direction, and a z-direction; and

a step for moving at least one of said header and said cap in at least one of an x-direction, a y-direction, and a z-direction.

13. **(Original)** The method of claim 7, wherein said step for mounting said cap comprises a step for welding said cap to said header at at least one point.

14. **(Currently Amended)** An apparatus to align a cap having a lens with a first optical axis to a header holding a photonic device with a second optical axis, said apparatus comprising:

a capture assembly adapted to hold said header having said photonic device, said capture assembly being movable relative to said cap having a lens;

an arm configured to support said cap, said arm being adapted to support said cap without obstructing a view of at least a portion of said lens; and

a visual display system adapted to depict a position of said cap relative to said photonic device as said capture assembly moves relative to said cap to align said first optical axis and said second optical axis.

15. **(Currently Amended)** The apparatus of claim 14, wherein said arm is adapted to apply pressure between ~~move~~ said cap in at least one of an x-direction, a y-direction, and a z-direction with respect to ~~[[and]]~~ said header.

16. **(Original)** The apparatus of claim 15, further comprising at least one welding system, said at least one welding system in electrical communication with said arm and said capture assembly.

17. **(Original)** The apparatus of claim 14, wherein said video display system comprises at least one camera and at least one video display.

18. **(Original)** The apparatus of claim 17, wherein said camera further comprises a zoom lens.

19. **(Original)** The apparatus of claim 17, wherein said video display system includes a video overlay including at least one calibration feature for determining when the photonic device is within a preselected alignment tolerance with the lens.

20. **(New)** A packaged optical device assembled according to the method of claim 7.

21. **(New)** The method of claim 7, wherein said photonic device is a laser.
22. **(New)** The method of claim 7, wherein said photonic device is a photo diode.
23. **(New)** The method of claim 7, wherein said lens comprises a ball lens.
24. **(New)** The method of claim 7, wherein said photonic device comprises an optical detector.